

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P333145-830

Luminaire Tested: **S125DIP-S375D1035U830-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333145-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S375D1035U830-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5277.4 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

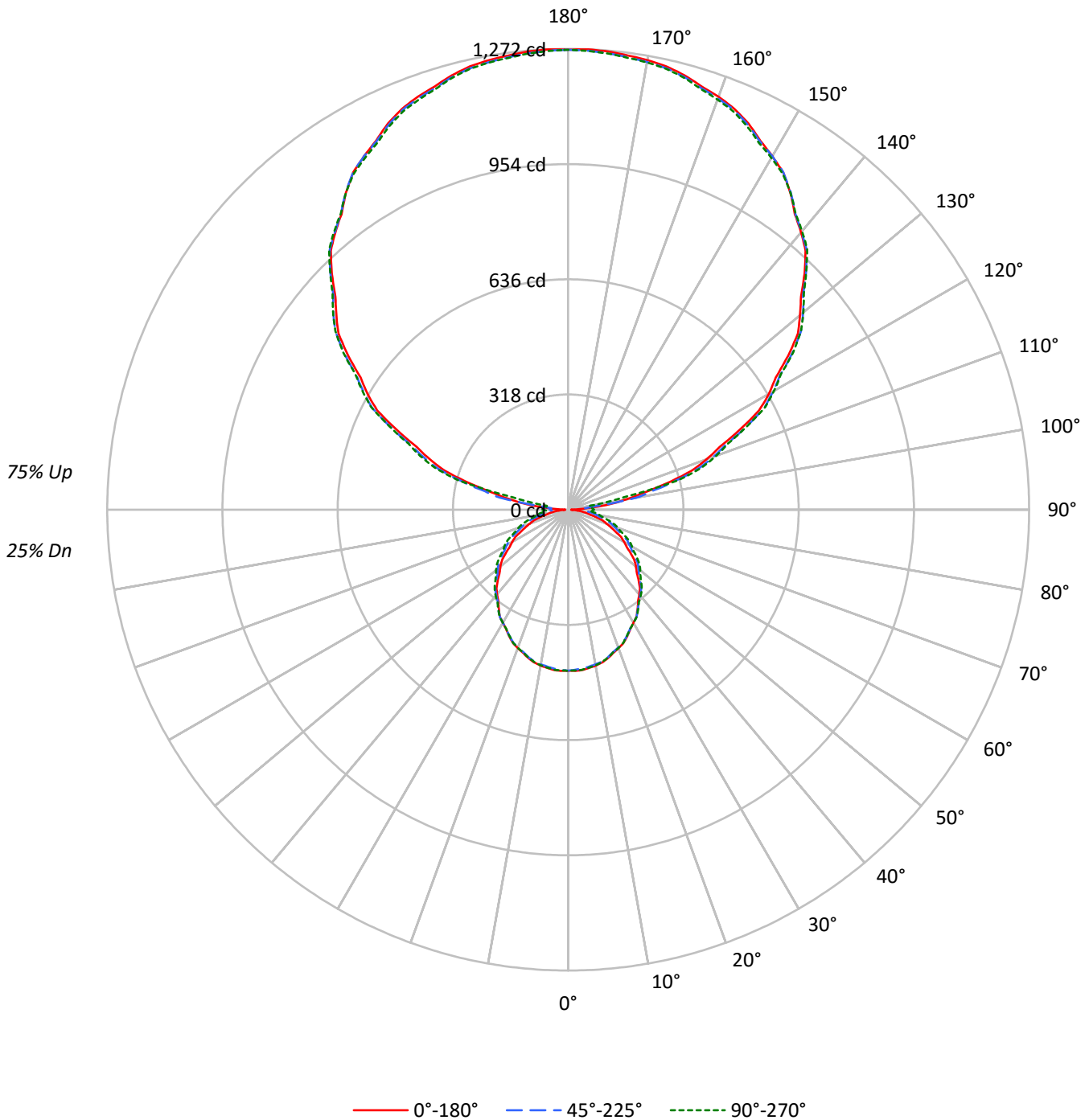
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	87	84	80	81	78	75	72	60	58	56	43	42	41	28	28	27	20
2	83	76	70	65	74	68	63	58	52	49	46	38	36	34	25	23	22	16
3	76	67	60	54	67	59	53	49	46	42	38	33	31	28	22	20	19	14
4	69	59	51	45	61	52	46	41	41	36	32	30	27	24	19	18	16	12
5	63	52	44	38	56	47	40	35	36	31	28	26	23	21	17	15	14	10
6	58	47	39	33	52	42	35	30	32	28	24	24	20	18	16	14	12	9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	16	14	13	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	12	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2869	2869	2869
5°	2875	2817	2826
10°	2855	2766	2762
15°	2821	2706	2681
20°	2776	2631	2601
25°	2721	2552	2502
30°	2654	2464	2411
35°	2593	2384	2329
40°	2531	2299	2245
45°	2459	2226	2171
50°	2391	2147	2106
55°	2309	2073	2030
60°	2220	1989	1951
65°	2128	1900	1864
70°	2024	1779	1773
75°	1855	1662	1662
80°	1636	1521	1540
85°	1430	1424	1502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	0.8
10°-20°	119.3	2.3
20°-30°	177.4	3.4
30°-40°	210.1	4.0
40°-50°	217.2	4.1
50°-60°	200.1	3.8
60°-70°	161.8	3.1
70°-80°	108.3	2.1
80°-90°	58.8	1.1
90°-100°	77.7	1.5
100°-110°	307.6	5.8
110°-120°	531.3	10.1
120°-130°	670.7	12.7
130°-140°	715.7	13.6
140°-150°	668.9	12.7
150°-160°	540.5	10.2
160°-170°	349.6	6.6
170°-180°	120.6	2.3
0°-30°	338.7	6.4
0°-40°	548.8	10.4
0°-60°	966.1	18.3
0°-90°	1295.0	24.5
90°-120°	916.5	17.4
90°-150°	2971.8	56.3
90°-180°	3982.0	75.5
0°-180°	5277.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	444	443	440	444	444	42
15°	424	424	422	424	422	119
25°	386	387	384	386	384	177
35°	334	336	336	337	337	209
45°	275	280	282	285	285	212
55°	211	218	225	230	232	189
65°	146	156	166	172	174	144
75°	80	92	105	114	116	85
85°	24	38	54	63	67	26
90°	8	29	51	65	71	7
95°	59	66	47	61	64	73
105°	281	291	304	313	315	297
115°	522	530	542	546	543	517
125°	740	747	755	758	758	661
135°	922	927	929	932	929	711
145°	1069	1070	1070	1073	1069	668
155°	1176	1171	1173	1175	1168	542
165°	1241	1236	1237	1242	1235	351
175°	1270	1264	1265	1271	1264	121
180°	1270	1270	1270	1270	1270	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3
2.5°	445.4	445.2	445.1	444.9	444.8	444.4	443.8	443.3	442.8	442.2	442.8
5°	444.3	444.1	443.9	443.7	443.6	443.1	442.4	441.8	441.1	440.4	441.2
7.5°	440.4	440.4	440.3	440.2	440.1	439.7	439.0	438.3	437.6	436.9	437.6
10°	436.9	436.9	436.9	436.9	436.9	436.5	435.7	435.0	434.2	433.4	434.1
12.5°	432.1	432.2	432.2	432.3	432.3	432.1	431.5	430.8	430.2	429.6	430.1
15°	424.2	424.3	424.4	424.6	424.7	424.3	423.7	423.0	422.4	421.7	422.3
17.5°	414.2	414.3	414.5	414.7	414.9	414.7	414.1	413.3	412.6	412.0	412.5
20°	406.9	407.1	407.3	407.5	407.6	407.4	406.7	406.0	405.4	404.6	405.0
22.5°	398.5	398.9	399.2	399.5	399.9	399.6	398.9	398.1	397.4	396.6	397.0
25°	385.5	385.8	386.1	386.3	386.6	386.5	386.0	385.4	384.7	384.2	384.6
27.5°	371.1	371.5	371.9	372.3	372.8	372.7	372.0	371.4	370.7	370.0	370.2
30°	360.2	360.8	361.4	362.0	362.6	362.6	362.0	361.4	360.8	360.2	360.4
32.5°	350.5	351.0	351.5	352.0	352.5	352.5	352.1	351.7	351.3	350.8	351.0
35°	333.7	334.3	335.1	335.7	336.4	336.6	336.3	336.0	335.7	335.5	335.7
37.5°	316.9	317.4	318.1	318.7	319.3	319.6	319.5	319.4	319.3	319.2	319.6
40°	305.4	306.1	306.9	307.6	308.5	308.8	308.7	308.6	308.5	308.4	308.8
42.5°	292.8	293.8	294.8	295.9	296.8	297.5	297.7	297.8	298.1	298.3	298.8
45°	274.8	276.0	277.0	278.1	279.1	279.9	280.4	280.9	281.3	281.8	282.5
47.5°	256.5	257.5	258.4	259.5	260.4	261.4	262.2	263.0	263.8	264.7	265.7
50°	243.9	245.0	246.1	247.1	248.2	249.3	250.3	251.4	252.4	253.5	254.6
52.5°	230.7	232.0	233.3	234.6	235.9	237.1	238.5	239.8	241.1	242.3	243.6
55°	211.2	212.8	214.3	215.9	217.4	219.0	220.6	222.1	223.7	225.2	226.3
57.5°	191.4	193.2	195.1	197.0	198.9	200.7	202.5	204.2	206.0	207.7	209.0
60°	178.1	180.1	182.0	184.0	185.9	187.8	189.7	191.7	193.7	195.6	197.0
62.5°	165.2	167.2	169.2	171.1	173.1	175.0	177.1	179.2	181.3	183.4	185.0
65°	145.5	147.7	150.0	152.1	154.4	156.7	159.0	161.4	163.6	166.0	167.4
67.5°	126.9	129.0	131.1	133.3	135.4	137.7	140.1	142.4	144.8	147.1	148.9
70°	113.3	115.5	117.7	119.9	122.2	124.5	127.1	129.6	132.1	134.6	136.5
72.5°	100.0	102.4	104.6	106.9	109.2	111.8	114.5	117.3	120.0	122.7	124.8
75°	80.1	82.7	85.2	87.7	90.2	93.0	96.1	99.2	102.4	105.4	107.4
77.5°	61.1	64.0	66.9	69.7	72.7	75.6	78.6	81.6	84.5	87.6	89.7
80°	49.2	52.1	55.0	58.0	60.8	63.9	67.2	70.5	73.8	77.1	79.3
82.5°	38.5	41.5	44.6	47.6	50.6	53.9	57.2	60.6	64.0	67.3	69.4
85°	23.9	27.1	30.3	33.6	36.8	40.1	43.5	46.8	50.2	53.5	55.7
87.5°	13.8	17.2	20.6	24.0	27.5	31.0	34.6	38.2	41.8	45.3	47.8
90°	7.9	12.7	17.4	22.2	27.0	31.8	36.5	41.3	46.0	50.8	54.0
92.5°	20.7	22.4	24.1	25.8	27.5	30.7	35.3	40.1	44.7	49.4	52.6
95°	59.3	61.2	63.1	64.9	66.8	65.5	60.8	56.2	51.6	46.8	50.0
97.5°	117.2	120.6	123.9	127.3	130.7	126.1	113.6	101.0	88.5	76.0	72.1
100°	161.9	164.7	167.3	169.9	172.6	175.9	179.8	183.8	187.7	191.6	192.5
102.5°	207.5	210.2	212.9	215.6	218.2	221.3	224.8	228.4	231.9	235.4	231.5
105°	280.6	283.0	285.4	287.8	290.1	292.8	295.7	298.6	301.5	304.4	306.3
107.5°	356.5	357.8	359.1	360.4	361.7	364.0	367.2	370.4	373.6	376.8	378.8
110°	405.9	407.0	408.1	409.3	410.5	412.6	415.8	418.9	422.0	425.2	426.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	452.5	453.9	455.3	456.9	458.3	460.4	463.3	466.2	469.0	471.9	472.9
115°	522.1	523.9	525.6	527.3	529.0	531.2	534.0	536.7	539.4	542.2	543.0
117.5°	594.1	594.6	594.9	595.3	595.8	597.6	600.7	603.9	607.1	610.2	610.8
120°	639.3	639.4	639.4	639.5	639.6	641.1	643.9	646.8	649.7	652.5	653.7
122.5°	678.8	679.8	680.7	681.6	682.6	684.3	686.7	689.2	691.5	694.0	695.2
125°	740.5	741.9	743.2	744.6	745.9	747.6	749.6	751.5	753.5	755.4	756.1
127.5°	799.0	799.9	800.9	801.8	802.8	804.0	805.4	806.9	808.3	809.8	810.8
130°	835.1	836.0	837.0	837.9	839.0	840.2	841.7	843.3	844.9	846.4	847.2
132.5°	870.9	872.1	873.3	874.5	875.7	876.6	877.1	877.8	878.4	878.9	880.1
135°	922.2	923.4	924.5	925.7	926.8	927.6	927.8	928.0	928.3	928.6	929.4
137.5°	969.4	970.3	971.4	972.4	973.4	973.9	973.8	973.8	973.7	973.7	975.0
140°	999.8	1000.3	1000.7	1001.2	1001.5	1001.7	1001.6	1001.5	1001.4	1001.3	1002.8
142.5°	1027.7	1027.9	1028.1	1028.2	1028.4	1028.7	1029.0	1029.3	1029.6	1029.9	1031.0
145°	1068.6	1068.9	1069.2	1069.5	1069.9	1070.1	1070.1	1070.1	1070.1	1070.1	1070.7
147.5°	1103.9	1103.8	1103.7	1103.6	1103.5	1103.6	1103.9	1104.2	1104.4	1104.7	1105.0
150°	1126.5	1126.1	1125.7	1125.2	1124.8	1124.8	1125.2	1125.7	1126.1	1126.5	1126.9
152.5°	1148.3	1147.5	1146.5	1145.6	1144.6	1144.4	1144.8	1145.2	1145.7	1146.0	1146.5
155°	1176.4	1175.2	1173.8	1172.6	1171.4	1170.9	1171.4	1171.8	1172.1	1172.6	1173.3
157.5°	1198.0	1197.2	1196.6	1195.8	1195.0	1194.7	1194.7	1194.8	1194.8	1194.9	1195.5
160°	1213.1	1211.8	1210.6	1209.3	1208.1	1207.5	1207.8	1208.0	1208.2	1208.3	1209.2
162.5°	1225.1	1223.9	1222.6	1221.3	1220.1	1219.6	1219.7	1220.0	1220.2	1220.4	1221.6
165°	1241.3	1240.0	1238.8	1237.6	1236.3	1235.8	1236.0	1236.1	1236.4	1236.6	1237.8
167.5°	1253.4	1252.1	1250.8	1249.4	1248.2	1247.6	1247.8	1248.0	1248.2	1248.5	1250.0
170°	1260.1	1258.7	1257.2	1255.7	1254.2	1253.7	1253.9	1254.1	1254.2	1254.5	1256.1
172.5°	1264.6	1263.2	1261.7	1260.3	1258.8	1258.3	1258.6	1259.0	1259.3	1259.7	1261.2
175°	1269.5	1268.3	1267.1	1265.7	1264.5	1264.0	1264.2	1264.4	1264.6	1264.8	1266.5
177.5°	1271.8	1270.8	1269.8	1268.8	1267.8	1267.3	1267.5	1267.7	1267.9	1268.0	1269.2
180°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3
2.5°	443.3	443.8	444.4	444.6	444.5	444.5	444.4	444.3
5°	442.0	442.7	443.5	443.8	443.7	443.7	443.6	443.5
7.5°	438.3	438.9	439.6	439.9	439.8	439.7	439.6	439.5
10°	434.8	435.5	436.1	436.4	436.3	436.2	436.1	436.0
12.5°	430.6	431.1	431.7	431.8	431.6	431.3	431.0	430.8
15°	422.8	423.4	424.0	424.0	423.7	423.3	422.9	422.5
17.5°	412.9	413.3	413.8	413.9	413.7	413.4	413.2	412.9
20°	405.3	405.6	405.9	406.0	406.0	406.0	406.0	406.0
22.5°	397.4	397.8	398.1	398.2	397.9	397.8	397.5	397.3
25°	384.9	385.4	385.8	385.7	385.2	384.7	384.3	383.8
27.5°	370.5	370.8	371.1	371.2	371.0	370.8	370.6	370.4
30°	360.6	360.8	361.0	361.1	361.0	360.9	360.8	360.7
32.5°	351.2	351.4	351.6	351.7	351.6	351.5	351.4	351.3
35°	336.0	336.3	336.6	336.7	336.7	336.7	336.7	336.7
37.5°	320.0	320.4	320.7	320.9	320.9	320.8	320.8	320.7
40°	309.2	309.5	310.0	310.3	310.5	310.7	310.9	311.0
42.5°	299.3	299.7	300.2	300.4	300.5	300.5	300.5	300.6
45°	283.2	283.9	284.6	284.9	285.0	285.1	285.2	285.3
47.5°	266.6	267.7	268.6	269.2	269.5	269.7	269.8	270.0
50°	255.6	256.7	257.8	258.4	258.7	259.0	259.3	259.6
52.5°	244.7	245.8	246.9	247.6	247.8	248.1	248.3	248.5
55°	227.3	228.4	229.5	230.2	230.5	230.9	231.4	231.8
57.5°	210.2	211.4	212.6	213.4	213.7	214.0	214.3	214.6
60°	198.5	199.9	201.4	202.3	202.6	202.8	203.1	203.4
62.5°	186.6	188.2	189.8	190.8	191.1	191.5	191.9	192.3
65°	168.9	170.3	171.7	172.7	173.1	173.4	173.9	174.3
67.5°	150.7	152.4	154.2	155.3	155.8	156.4	156.8	157.3
70°	138.3	140.2	141.9	143.2	143.7	144.3	144.9	145.5
72.5°	126.8	128.8	130.7	132.0	132.3	132.8	133.2	133.7
75°	109.3	111.2	113.2	114.3	114.9	115.4	115.8	116.3
77.5°	91.8	94.0	96.0	97.4	97.7	98.1	98.5	98.9
80°	81.3	83.5	85.6	86.9	87.3	87.7	88.0	88.4
82.5°	71.4	73.5	75.6	76.9	77.7	78.3	79.0	79.7
85°	57.9	59.9	62.1	63.5	64.3	65.1	65.9	66.6
87.5°	50.2	52.7	55.1	56.7	57.5	58.3	59.1	59.9
90°	57.3	60.6	63.9	66.2	67.5	68.8	70.0	71.4
92.5°	55.8	59.0	62.2	64.3	65.2	66.2	67.1	68.1
95°	53.3	56.4	59.6	61.5	62.2	62.9	63.5	64.2
97.5°	68.2	64.4	60.5	58.8	59.5	60.1	60.8	61.5
100°	133.4	104.2	75.1	60.4	60.1	59.9	59.7	59.4
102.5°	227.5	223.6	219.6	210.8	197.2	183.6	169.9	156.3
105°	308.3	310.2	312.2	313.4	313.9	314.2	314.7	315.2
107.5°	380.8	382.8	384.7	385.7	385.6	385.6	385.6	385.5
110°	427.5	428.8	430.0	431.0	432.0	432.8	433.7	434.6



TEST NUMBER: P333145-830

CATALOG NUMBER: S125DIP-S375D1035U830-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	473.9	474.9	475.8	476.5	476.8	477.2	477.7	478.1
115°	543.9	544.9	545.7	545.8	545.2	544.5	543.8	543.2
117.5°	611.3	611.9	612.5	612.8	612.9	613.0	613.1	613.2
120°	655.0	656.2	657.4	657.8	657.3	656.9	656.4	655.9
122.5°	696.4	697.5	698.6	698.9	698.2	697.7	697.0	696.4
125°	756.8	757.5	758.2	758.5	758.4	758.2	758.1	757.9
127.5°	811.8	812.8	813.7	813.7	812.8	811.7	810.8	809.7
130°	847.9	848.6	849.3	849.4	848.9	848.3	847.7	847.2
132.5°	881.4	882.6	883.8	884.1	883.4	882.9	882.2	881.6
135°	930.3	931.1	932.0	932.0	931.2	930.5	929.6	928.9
137.5°	976.2	977.4	978.6	978.8	978.2	977.4	976.8	976.1
140°	1004.2	1005.7	1007.2	1007.5	1006.6	1005.8	1004.9	1004.0
142.5°	1031.9	1032.9	1033.9	1034.0	1033.1	1032.2	1031.3	1030.5
145°	1071.4	1072.1	1072.8	1072.7	1071.9	1071.0	1070.1	1069.2
147.5°	1105.5	1105.9	1106.3	1105.8	1104.5	1103.2	1101.8	1100.5
150°	1127.4	1127.8	1128.1	1127.6	1126.1	1124.5	1122.9	1121.2
152.5°	1146.9	1147.4	1147.7	1147.2	1145.8	1144.2	1142.7	1141.2
155°	1173.8	1174.5	1175.2	1174.6	1172.9	1171.2	1169.6	1167.9
157.5°	1196.2	1196.8	1197.5	1197.0	1195.3	1193.6	1191.9	1190.3
160°	1210.0	1210.9	1211.7	1211.3	1209.7	1208.0	1206.3	1204.6
162.5°	1222.8	1223.9	1225.1	1224.7	1222.9	1221.1	1219.3	1217.4
165°	1239.1	1240.4	1241.6	1241.4	1239.7	1238.0	1236.4	1234.7
167.5°	1251.5	1253.0	1254.5	1254.3	1252.5	1250.6	1248.7	1246.8
170°	1257.8	1259.5	1261.2	1261.0	1259.1	1257.4	1255.5	1253.6
172.5°	1262.7	1264.2	1265.7	1265.6	1263.7	1261.8	1259.9	1258.1
175°	1268.2	1269.9	1271.5	1271.4	1269.5	1267.6	1265.7	1263.9
177.5°	1270.4	1271.6	1272.7	1272.6	1271.3	1270.0	1268.7	1267.2
180°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5

(END OF REPORT)